Study Guide

Potential Kinetic Energy Energy

**P**otential energy is energy stored within a

physical system as a result Kinetic energy is the energy possessed

the position or configuration by an object because of its motion

of the different parts of that system. All moving objects have kinetic energy.

It has the potential to be

converted into other forms of energy

, such as kinetic energy,

and to do work in the process.

A rollercoaster is This rollercoaster has a lot of kinetic energy. not moving on top of a hill getting ready to go down.

The way we would teach it to On this one we would also use a lot of pictures.

teacher would be to use a lot

of visuals of energy waiting to

happen.

PICTURES

 KINETIC ENERGY POTENTIAL ENERGY

 

Electrical Energy Chemical Energy

Electromagnetic Energy

Electrical- The ability of the electric current to do work.

The way I would teach this through hands on activities.

Electrical Energy is used to power our houses.

Chemical- The potential of a chemical substance to undergo a transformation through a chemical reaction or to transform other chemical substances.

I would also teach this through a lab.

A fire is considered chemical energy.

Electromagnetic (light) - The potential energy of an electric or magnetic field.

I would teach this through a hands on lab.

Electromagnetic energy is also known as Light Energy.

[en.wikipedia.org/wiki/Potential\_energy](http://www.google.com/url?q=http://en.wikipedia.org/wiki/Potential_energy&sa=X&ei=MzJVTeTuOozAtgf4roiTDQ&ved=0CA8QpAMoAQ&usg=AFQjCNENRfE8CPJAaCK5rjNGYwRUD7YHsA)

[www.ergon.com.au/ergonia/glossary.shtml](http://www.google.com/url?q=http://www.ergon.com.au/ergonia/glossary.shtml&sa=X&ei=hihZTcOAAYuitgebzLj6DA&ved=0CAkQpAMoAg&usg=AFQjCNHCibi9mlIEQV_F6_Ltyhu1let65w)

<http://en.wikipedia.org/wiki/Chemical_energy#Chemical_energy>

<http://www.cardiffwoodwasterecycling.co.uk/>

<http://www.sciencecompanion.com/virtual-workshop-toys-and-energy-transfers-with-lance-campbell/>

<http://www.light-bulbs.us/>